## GRIP DC8 Microphysical Observations

Andrew Heymsfield and Aaron Bansemer, NCAR Yaitza Luna-Cruz, Howard University

## NCAR Microphysics Probes

Instrument	Measurement	Range
Cloud Aerosol Spec.	Small Particles	0.6-50 microns
Cloud Droplet Probe	Small Particles	3-50 microns
Cloud Imaging Probe	Large Particles/2D shape	50-1500 microns
Precip. Imaging Probe	Large Particles/2D shape	100 microns-2.75 cm (*)
Rosemount Icing Probe	Supercooled Liquid Water	-1 to +5 Volts
Cloud Spec. and Counterflow Impactor	Small Particles, Condensed water content	0.6-50 microns 0.01-2 g/m3



09022010 171800 Buffer width = 960 microns. Project: GRIP Probe: CIPG Resolution: 15 microns This image represents one minute of flight time.



09022010 171800 Buffer width = 6400 microns. Project: GRIP Probe: PIP Resolution: 100 microns This image represents one minute of flight time.



09022010 184700 Buffer width = 960 microns. Project: GRIP Probe: CIPG Resolution: 15 microns This image represents one minute of flight time.















## Summary and Conclusions

- Excellent, reliable data set (CDP, RICE)
- Data Archived at <u>ftp://ftp.ucar.edu/pub/mmm/bansemer/grip/</u>
- Also, on the GRIP website
- We seek collaboration with other GRIP investigators